

**Amendments to the Specification:**

- ✓ - Please add the following heading on page 1, before line 1:

TITLE OF THE INVENTION

- Please add the following heading on page 1, after line 5:

B1 BACKGROUND OF THE INVENTION

(1) Field of the Invention

- Please add the following heading and paragraph on page 2, after line 5:

(2) Description of Related Art

B2 Although ground penetrating radars (GPRs) are already known as non-destructive testing tools their analytical capabilities have been restricted and imaging is often crude using conventional devices. Conventional radar systems which use electromagnetic waves to investigate the internal structure of non-conducting substances within the ground provide relatively low resolution. Furthermore, they are often unwieldy devices and require skilled technical operators.

- J - Please delete lines 17-25 on page 4.

- ✓ - Please add the following heading and text on page 2, after line 5:

BRIEF SUMMARY OF THE INVENTION

- Please add the following heading and text on page 8, after line 14:

B3 BRIEF DESCRIPTION OF THE SEVERAL VIEWS OF THE DRAWINGS

- Please add the following heading and text on page 11, before line 1:

B4 DETAILED DESCRIPTION OF THE INVENTION